IN THE CLAIMS

- 1). (Currently Amended) A hollow fiber membrane made of a perfluorinated thermoplastic <u>polymer having hydrophobic surfaces</u> comprising a skinned surface on one diameter and a porous surface on the opposite diameter.
- 2). (Original) The membrane of Claim 1 wherein the skinned surface is non-porous.
- 3). (Original) The membrane of Claim 1 wherein the skinned surface is porous with an average pore size range of from about 2 nanometers to about 50 nanometers.
- 4). (Original) The membrane of Claim 1 wherein the membrane is an ultrafiltration membrane.
- 5). (Currently Amended) A hollow fiber ultrafiltration membrane made of perfluorinated thermoplastic <u>polymer having hydrophobic surfaces</u> comprising a skinned surface on one diameter and a porous surface on the opposite diameter capable of retaining macromolecular species dissolved in the class consisting of organic solvents, mixtures of organic solvents, organic solvent/water mixtures, mixtures of organic solvents/water mixtures, and water, wherein the members of the class may have other species dissolved therein.
- 6). (Original) The membrane of Claim 5 wherein the membrane has a molecular weight cutoff of less than 500,000 Daltons.
- 7). (Original) The membrane of Claim 6 wherein the membrane has a molecular weight cutoff of less than 100,000 Daltons.

- 8). (Original) The membrane of Claim 7 wherein the membrane has a molecular weight cutoff of less than 50,000 Daltons.
- 9). (Original) The membrane of Claim 8 wherein the membrane has a molecular weight cutoff of less than 10,000 Daltons.
- 10). (Currently Amended) A hollow fiber membrane contactor comprising a hollow fiber membrane made of a perfluorinated thermoplastic polymer having hydrophobic surfaces comprising a skinned surface on one diameter, and a porous surface on the opposite diameter.
- 11). (Original) The membrane of Claim 10, wherein the skinned surface is non-porous.
- 12). (Original) The membrane of Claim 10, wherein the skinned surface has a porous surface with an average pore size range of from about 2 nanometers to about 50 nanometers.
- 13). (Currently Amended) A hollow fiber contactor membrane made of perfluorinated thermoplastic <u>polymer having hydrophobic surfaces</u> comprising a skinned surface on one diameter and a porous surface on the opposite diameter capable of liquid-gas mass transfer with a Sherwood number equal to about 1.64 times the Graetz number to the 0.33 power in a range of Graetz numbers of from about 5 to about 1000.
- 14). (Currently Amended) A hollow fiber contactor membrane made of perfluorinated thermoplastic <u>polymers having hydrophobic surfaces</u> comprising a skinned surface on one diameter and a porous surface on the opposite diameter

capable of liquid-gas mass transfer with liquids having surface tension values of greater than about 20 mN/m.

- 15). (Currently Amended) A hollow fiber contactor membrane made of perfluorinated thermoplastic <u>polymers having hydrophobic surfaces</u> comprising a skinned surface on one diameter and a porous surface on the opposite diameter capable of liquid-gas mass transfer having an intrusion pressure of greater than about 50 psi with isopropyl alcohol.
- 16). (Original) The membrane of Claim 15 having an intrusion pressure of greater than about 10 psi with isopropyl alcohol.
- 17). (Original) The membrane of any one of Claims 1, 5,10, 13, 14 and 15 wherein said perfluorinated thermoplastic polymer is selected from the group consisting of poly(tetrafluoroethylene-co-perfluoro(alkylvinylether)), poly-(tetrafluoroethylene-co-hexafluoropropylene), and blends thereof.
- 18). (Original) The membrane of Claim 17 wherein the alkyl of said poly(tetrafluoroethylene-co-perfluoro(alkylvinylether)) is selected from the group consisting of propyl, methyl, and blends of methyl and propyl.
 - 19). (Canceled)
 - 20). (Canceled)
 - 21). (Canceled)

Page six

- 22). (Canceled)
- 23). (Canceled)
- 24). (Canceled)
- 25). (Canceled)
- 26). (Canceled)
- 27). (Canceled)
- 28). (Canceled)
- 29). (Canceled)
- 30). (Canceled)
- 31). (Canceled)
- 32). (Canceled
- 33). (Canceled)
- 34). (Canceled)

Page seven

- 35). (Canceled)
- 36). (Canceled)
- 37). (Canceled)
- 38). (Canceled)
- 39). (Canceled)
- 40). (Canceled)
- 41) (Canceled)
- 42). (Canceled)
- 43). (Canceled)
- 44). (Canceled)
- 45). (Canceled)
- 46). (Canceled
- 47). (Canceled)